ame and Address of E East Cherry Creek V	xisting Permittee Valley Water & Sanita	ation District	East C	nd Address of Surface herry Creek Valley V S. Gun Club Road, A	Water & Sanitatio	n District
Locate Well and 6		State Col-		County Adams	Per	mit Number 012143-08425
	N		ce Location Descrip		ection 1 Towns	hip 15 Range 66w
		Surfa Loca	ice tion 577 ft. frm (N/S)	S Line of quarter s	ection	and drilling unit
w			WELL ACTIVITY ✓ Brine Disposal Enhanced Recove Hydrocarbon Stor		al .	
Ol	s		ease Name		Well Numbe	r DI-1
	INJECTION	N PRESSURE	TOTAL V	DLUME INJECTED		SING ANNULUS PRESSU DNAL MONITORING)
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM P	SIG MAXIMUM PSIG
January-2015	708.94	1167.83	7,014,180	N/A	-1.47	18.
February-2015	758.72	1177.74	5,169,940	°N/A	-1.33	.79
March-2015	770.38	1121.37	7,987,570	N/A	1 -1.17	.94
April-2015	800.9	1117.84	7,880,070	N/A	74	1.92
May-2015	1070.35	1276.92	12,184,930	N/A	21	1.50
June-2015	1210.67	1693.77	14,269,950	N/A	12	1.77
July-2015	1554.52	1732.08	20,031,230	N/A	08	4.43
August-2015	1581.82	1749.41	20,259,460	N/A	08	1.24
September-2015	1588.43	1767.11	18,985,700	N/A	09	.51
October-2015	847.98	1353.20	3,174,090	N/A	41	2.28
November-2015	646.05	1143.39	3,013,440	N/A	-1.22	1.18
December-2015	816.96	1361.44	7,836,140	N/A	-1.22	.97
		<u></u>	Certification		submitted in this d	

ınd	Official	Title	(Please	type	or	print)
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Scott Nieber - Operations Manager

Signature ...

Date Signed

V5/16

EPA Form 7520-11 (Rev. 12-11)

Date 1/1/16





Analytical Results

TASK NO: 151104114

Report To: Clint Carter

Company: East Cherry Creek Valley Water & San. District

6201 S. Gun Club Road Aurora CO 80016

Bill To: Clint Carter

Company: East Cherry Creek Valley Water & Sar

6201 S. Gun Club Road Aurora CO 80016

Task No.: 151104114

Client PO:

Client Project: Deep Well Samples

Date Received: 11/4/15

Date Reported: 11/25/15

Matrix: Wastewater

Customer Sample ID Deep Well

Sample Date/Time: 11/4/15 1:00 PM

Lab Number: 151104114-01

Result Method ML Date Analyzed Analyzed By Test

Total

Strontium

26.805 mg/L

EPA 200.8

0.005 mg/L

11/10/15

RCM

Abbreviations/ References:

ML = Minimum Level = LRL = RL mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

Chain of Custody Form

														1							
Report To Information		F	Bill To Information (1	different fro	om rep	ort to)	Pro	ject l	Vame					21	Col	ora	do A	\naly	ytica	3	
Company Name: Eccv		(Company Name:	_			NW	TP D	eep W	ell											
Contact Name: Clint Carter			Contact Name:				Yea			<u>_</u>						*****	i Lab th Ma	in Str	reet		
Address:															Brig	htor	ı, CO	8060			
6201 S Gun Club Rd			Address:				las	K Nu	mber (Jse On Fask N						od La	<u>b</u> lar Dr	. Suit	te 100.	A
										1511	10411	4						8022			
City Aurora State CO Z	in20016		CityStat	e Zip _														59-231	13		
			ny Stat	e zip			1			,	ARF				Fax	: 303	-659-	2315			
Phone:3039017681	Fax:		hone: Fax	•			Dies	Lange	Date(La	h Hea	Ontul				wwy	v.col	orad	olab.c	<u>om</u>		
Email: ccarter@eccv.org Sample Collector: PR			Cmail:				וְצוּע	JUS21 I	Jaie(La	o ose	Only)										
Sample Concetor: 715		<u>P</u>	O No.:		······································														_		
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Ground Water	Sludge		Other		ntain	One		234	238	226	9-										*
Surface Water	Compost				No. of Containers	Grab or (Check (Composite	tinm	EID.	- mn	1	- 210	1 1				-					
Date Time		Sample	in		No. o	Grab or (Check One Only) Composite	Strontium	Uranium - 234	Thorium -	Radium	Potassium Lead - 210										C
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ANALYTICAL SUMMARY REPORT

November 25, 2015

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order:

C15110278

Project Name:

151104114 Deep Well Samples

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 11/9/2015

for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C15110278-001	151104114-01 Deep Well	11/04/15 13:	00 11/09/15	Waste Water	Gross Gamma Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Uranium, Isotopic, Total

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by Randy Horton

Date: 2015.11.25 13:59:19 -07:00



Trust our People. Trust our Data.

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College Station TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

CLIENT: Colorado Analytical Laboratories Inc

Project:

151104114 Deep Well Samples

Work Order:

C15110278

Report Date: 11/25/15

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project: Lab ID:

151104114 Deep Well Samples C15110278-001

Client Sample ID: 151104114-01 Deep Well

Report Date: 11/25/15

Collection Date: 11/04/15 13:00

DateReceived: 11/09/15

Matrix: Waste Water

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Lead 210	-0.05	pCi/L	U			E909.0	11/22/15 02:48 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	11/22/15 02:48 / eli-cs
Lead 210 MDC	1.4	pCl/L				E909.0	11/22/15 02:48 / eli-cs
Radium 226	1.1	pCi/L				E903.0	11/23/15 10:24 / dmf
Radium 226 precision (±)	0.29	pCi/L				E903.0	11/23/15 10:24 / dmf
Radium 226 MDC	0.16	pCi/L				E903.0	11/23/15 10:24 / dmf
Radium 228	2.4	pCi/L				RA-05	11/18/15 11:36 / plj
Radium 228 precision (±)	0.92	pCi/L				RA-05	11/18/15 11:36 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	11/18/15 11:36 / plj
Thorium 230	0.06	pCi/L	U			E908.0	11/20/15 09:45 / cng
Thorium 230 precision (±)	0.2	pCi/L				E908.0	11/20/15 09:45 / cng
Thorium 230 MDC	0.3	pCi/L				E908.0	11/20/15 09:45 / cng
Jranium 234	126	pCi/L				E908.0	11/23/15 10:08 / cng
Uranium 234 precision (±)	24.4	pCi/L				E908.0	11/23/15 10:08 / cng
Jranium 234 MDC	1.0	pCi/L				E908.0	11/23/15 10:08 / cng
Uranium 238	104	pCi/L				E908.0	11/23/15 10:08 / cng
Uranium 238 precision (±)	20.3	pCi/L				E908.0	11/23/15 10:08 / cng
Uranium 238 MDC	0.9	pCi/L				E908.0	11/23/15 10:08 / cng
- The sample was received in the laboral	tory with a pH > 2. The	pH was 6.					
RADIONUCLIDES - GAMMA							
Potassium 40	203	pCi/L				E901.1	11/10/15 12:19 / rdw
Potassium 40 precision (±)	88.0	pCi/L				E901.1	11/10/15 12:19 / rdw
Potassium 40 MDC	90.2	pCi/L				E901.1	11/10/15 12:19 / rdw
- The sample was received in the laboral	tory with a pH > 2. The	pH was 6.					

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc

Project: 151104114 Deep Well Samples

Report Date: 11/25/15

		F - T -		·····	***************************************			TTOIR	Olue)	. 0101102	10
Analyte	Count	Result	Units		RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1	***************************************		7-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	***************************************			**************************************	······		Batch:	R20629
Lab ID: MB-R206291	3 N	Method Blank					Run: GAM-	HPGE_151109A		11/09	/15 07:47
Potassium 40		3	pCi/L					-			
Potassium 40 precision (±)		40	pCi/L								
Potassium 40 MDC		80	pCi/L								
Lab ID: LCS-R206291	2 L	aboratory Con	ntrol Sample				Run: GAM-	HPGE_151109A		11/09/	15 07:47
Cesium 137		370	pCi/L			98	70	130			
Cobalt 60		290	pCi/L			103	70	130			
Lab ID: C15110241-001ADUF	3 3 8	Sample Duplice	ate				Run: GAM-l	HPGE_151109A		11/09/	15 07:47
Potassium 40		180	pCi/L						47	20	R
Potassium 40 precision (±)		99	pCi/L								
Potassium 40 MDC		98	pCI/L								
- For all R qualified Gamma analytes t	he RERs	are less than the	e limit of 2.0.								

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 11/25/15

Project: 151104114 Deep Well Samples

Analyte	Count Result	Units	RL %R	EC	Low Limit	High I	Limit	RPD	RPDLimit	Qual
Method: E903.0			···········		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				Batch: RA	226-7898
Lab ID: LCS-RA226-7898	Laboratory Cor	trol Sample			Run: G542N	1_1511	10A		11/23	15 08:49
Radium 226	9.5	pCi/L		91	80		120			
Lab ID: MB-RA226-7898	3 Method Blank				Run: G542N	1_1511	10A		11/23/	15 08:49
Radium 226	0.1	pCi/L								U
Radium 226 precision (±)	0.1	pCi/L								
Radium 226 MDC	0.2	pCi/L								
Lab ID: C15110203-002DMS	Sample Matrix	Spike			Run: G542N	1_1511	10A		11/23/	15 08:49
Radium 226	23	pCi/L		86	70		130			
Lab ID: C15110203-002DMS	D Sample Matrix	Spike Duplicate			Run: G542N	1_1511	10A		11/23/	15 08:49
Radium 226	22	pCi/L		81	70		130	5.1	49.2	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 11/25/15

Project: 151104114 Deep Well Samples

Analyte		Coun	t Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E908.0				************	······································		-	В	atch: RA-TH	-ISO-235
Lab ID:	LCS-RA-TH-ISO-2353	}	Laboratory Cor	ntrol Sample			Run: ALPH	ANALYST_151			/15 09:45
Thorium 2	30		6.9	pCi/L		104	80	120			, , , , , , , , , , , , , , , , , , , ,
Lab ID:	C15110462-002DMS		Sample Matrix	Spike			Run: ALPH	ANALYST_151	117C	11/20	/15 09:45
Thorium 2	30		14	pCi/L		99	70	130			
Lab ID:	C15110462-002DMSE)	Sample Matrix	Spike Duplicate			Run: ALPH	ANALYST_151	117C	11/20	/15 09:45
Thorium 2	30		13	pCi/L		90	70	130	9.9	48	
Lab ID:	MB-RA-TH-ISO-2353	3	Method Blank				Run: ALPH	ANALYST_151	117C	11/20	/15 09:45
Thorium 2	30		0.010	pCi/L							U
Thorium 2	30 precision (±)		0.07	pCi/L							
Thorium 2	30 MDC		0.2	pCi/L							
Method:	E908.0									Batch: RA-U-	ISO-0742
Lab ID:	LCS-RA-U-ISO-0742	2	Laboratory Cor	ntrol Sample			Run: ALPH	ANALYST_151	11 7 D	11/20	/15 14:24
Uranium 2	34		10.3	pCi/L		90	80	120			
Uranium 2	38		11.2	pCi/L		96	80	120			
Lab ID:	C15110269-001AMS	2	Sample Matrix	Spike			Run: ALPH	ANALYST_151	117D	11/20	/15 14:24
Uranium 2	34		57.4	pCi/L		83	70	130			
Uranium 2	38		40.8	pCi/L		94	70	130			
Lab ID:	C15110269-001AMSD	2	Sample Matrix	Spike Duplicate			Run: ALPH	ANALYST_151	117D	11/20	/15 14:24
Uranium 2	34		63.8	pCi/L		110	70	130	11	48.9	
Uranium 2	38		43.9	pCi/L		107	70	130	7.3	48.9	
Lab ID:	MB-RA-U-ISO-0742	6	Method Blank				Run: ALPH	ANALYST_151	117D	11/23	/15 10:08
Uranium 2	34		-0.003	pCi/L							U
Uranium 2	34 precision (±)		0.07	pCi/L							
Uranium 2	34 MDC		0.2	pCi/L							
Uranium 2	38		0.04	pCi/L							U
Uranium 2	38 precision (±)		0.08	pCi/L							
Uranium 2	38 MDC		0.2	pCi/L							

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College Station. TX 888.690.2218 + Gillette, WY 866.686.7175 + Helena. MT 877.472.0711

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc Project: 151104114 Deep Well Samples Report Date: 11/25/15

Analyte		Count Res	suit	Units	RL	. %REC	Low Limit	High L	imit	RPD	RPDLimit	Qual
Method:	E909.0									E	Batch: T_PB-	210-0622
Lab ID:	MB-PB-210-0622	3 Method E	3lank				Run: SUB-1	Г66188			11/19/	15 22:52
Lead 210			-0.4	pCi/L								Ų
Lead 210 p	precision (±)		0.9	pCI/L								
Lead 210 I	MDC		1	pCi/L								
Lab ID:	LCS-PB-210-0622	Laborato	ry Con	trol Sample			Run: SUB-	T66188			11/20/	15 03:41
Lead 210			23	pCi/L		106	80		120			
Lab ID:	T15110034-001GMS	Sample I	Matrix :	Spike			Run: SUB-	T66188			11/20/	15 10:44
Lead 210			32	pCi/L		72	70		130			
Lab ID:	T15110034-001GMSI	Sample f	Matrix :	Spike Duplicate			Run: SUB-	T66188			11/20/	15 13:19
Lead 210			35	pCi/L		77	70		130	7.1	46.4	

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College Station, TX 888,690.2218 * Gillette, WY 866.686.7175 * Helena, MT 877,472.0711

QA/QC Summary Report

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Report Date: 11/25/15

Project: 151104114 Deep Well Samples

Analyte	Count Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05								Batch: RA	228-5083
Lab ID: LCS-228-RA226-789	8 Laboratory Cor	itrol Sample			Run: TENN	ELEC-3_151110	В	11/18/	15 09:49
Radium 228	8.1	pCi/L		106	80	120			
Lab ID: MB-RA226-7898	3 Method Blank				Run: TENN	ELEC-3_151110	В	11/18/	15 09:49
Radium 228	0.3	pCi/L							U
Radium 228 precision (±)	0.6	pCI/L							
Radium 228 MDC	1	pCi/L							
Lab ID: C15110203-004DMS	Sample Matrix	Spike			Run: TENN	ELEC-3_151110	В	11/18/	15 09:49
Radium 228	24	pCi/L		99	70	130			
Lab ID: C15110203-004DMS	D Sample Matrix	Spike Duplicate			Run: TENN	ELEC-3_151110	В	11/18/	15 09:49
Radium 228	22	pCi/L		85	70	130	10	49	

None

C15110278

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc Login completed by: Dorian Quis Date Received: 11/9/2015 Received by: cim Reviewed by: BL2000\rhorton Carrier name: Ground 11/10/2015 Reviewed Date: Not Present Yes 🗸 No 🗌 Shipping container/cooler in good condition? No 🔲 Not Present [✓] Yes 🗌 Custody seals intact on all shipping container(s)/cooler(s)? Not Present [✓] Yes [No 🗌 Custody seals intact on all sample bottles? No 🗌 Chain of custody present? Yes 🗹 Chain of custody signed when relinquished and received? Yes ✓ No 🔲 Yes 🗸 No 🗌 Chain of custody agrees with sample labels? Yes 🔽 No 🗌 Samples in proper container/bottle? No 🗌 Sample containers intact? Yes 🗹 Sufficient sample volume for indicated test? Yes 🗸 No 🗀 All samples received within holding time? Yes 🗸 No 🗌 (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.) Temp Blank received in all shipping container(s)/cooler(s)? Yes 🗌 No V Not Applicable 3.2°C Blue Ice Container/Temp Blank temperature: Water - VOA vials have zero headspace? Yes No 🗌 Not Applicable Water - pH acceptable upon receipt? Yes 🗌 No 🗌 Not Applicable **Standard Reporting Procedures:** Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis. **Contact and Corrective Action Comments:**

Chain of Custody Form

Report To Information	Bill To Information (If different from report to)	Project Name
Company Name: Colorado Analytical	Company Name: Same As Report To	151104114
Contact Name: Stuart Nielson	Contact Name:	Deep Well Samples
Address:	Address:	Task Number (Lab Use Only)
240 S. Main St.		
City Brighton State CO Zip80601	City State _ Zip	
Phone:3036592313 Fax:3036592315	Phone: Fax:	
Email: stuartnielson@coloradolab.com	Email:	Disposal Date(Lab Use Only)
Sample Collector: Pr	PO No.:	



Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

							-	.	,					CI	511	<u> </u>	18		
Groun	Water D d Water C e Water C	ם	Soil Sludge Compost		Plant Tissue Other		No. of Containers	Grab or (Check One Only) Composite	U234 E-907	U238 E-907	Thorium 230 E-907	Radium 226 E-903	Radium 228 E-904	Gross Gama (K-40)	teder en	The second state of the second se			
11/4/15	1300	15110411	4-01 Deep Well				5	$\boxtimes \Box$	\boxtimes	\boxtimes	X D		\boxtimes	X C					
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Instructi	6ns:Send via	UPS to Ener	gy Labs R	5-100	450 MIN	C/S Info:								Present Y				***************************************	
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